	Application No.	Application No. Applicant(s)	
Notice of Allowability	09/436,164	REUBINOFF ET AL.	
	Examiner	Art Unit	
	Joseph T. Woitach	1632	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to <u>August 11, 2004</u> .			
2. The allowed claim(s) is/are <u>56-63</u> .			
3. 🔀 The drawings filed on <u>09 November 1999</u> are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the 			
attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)	5 □ Notice of Info	rmal Potent Application (PTO 152)	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ∐ Notice of Info 6. ⊠ Interview Sur	rmal Patent Application (PTO-152) nmary (PTO-413),	
	Paper No./M	lail Date	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	<i>,</i> –		
4. Examiner's Comment Regarding Requirement for Deposit		tatement of Reasons for Allowance)
of Biological Material	9. Other		
-			

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DETAILED ACTION

This application is an original application filed November 9, 1999 which claims benefit of foreign applications PP7009, filed November 9, 1998, and PQ2852, filed September 15, 1999, both filed in Australia.

Applicants amendment filed August 11, 2004, has been received and entered. Claims 1-55 have been canceled. Claims 56-63 have been added. Claims 56-63 are pending and currently under examination.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Xiaochun Zhu on October 28, 2004.

The application has been amended as follows:

In claim 1, at the beginning of the claim insert " \underline{A} ".

In claims 60-63, delete the first word [A] and substitute "The" therein.

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Fibroblast feeder layers are required in the culturing and maintenance of undifferentiated human (primate) embryonic stem cells. It was recognized in the prior art that it was necessary to test a preparation of feeder cells for its ability to support embryonic stem cell growth, in particular for their ability to support an undifferentiated phenotype of the stem cells. The present specification examined the properties of feeder cells that do not support an undifferentiated state and discovered that these feeder cells promote lineage specific differentiation of stem cells, in part by the factors produced by the cells. In contrast to the prior art which only search for feeder cells to maintain an ES cell in an undifferentiated state, the presently claimed invention identifies feeder cells that promote differentiation and use these properties in methods of differentiating human ES cells.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Woitach whose telephone number is (571) 272-0739.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached at (571) 272-0734.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group analyst Dianiece Jacobs whose telephone number is (571) 272-0532.

Joseph T. Woitach

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